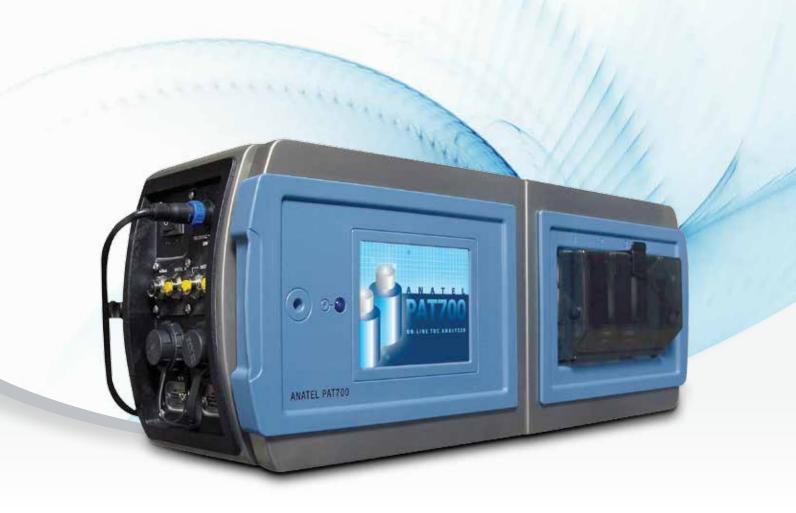


ANATEL PAT 700

TOTAL ORGANIC CARBON AND CONDUCTIVITY ANALYZER

Fully Compliant with Global Pharmacopeia Requirements : USP, EP, JP





PAT 700 TOTAL ORGANIC CARBON & CONDUCTIVITY ANALYZER

LOW COST OF OWNERSHIP

TOC, conductivity and water temperature from just one analyzer

 Can be fully validated for TOC, Conductivity and Temperature to USP, EP and JP requirements

12 month service interval

- · Auto-switching main and standby UV lamps
- UV Detect to ensure UV lamp is working correctly

No chemicals

 Designed specifically for pharmaceutical PW and WFI measurement, this analyser uses just powerful UV light to oxidize the organics

No peristaltic pump

- No tubing and pump heads to replace
- PAT700 traps an aliquot for each analysis, so the measurement is stable and not affected by changes in sample pressure or flow rate

Single sensor to measure TIC and TC

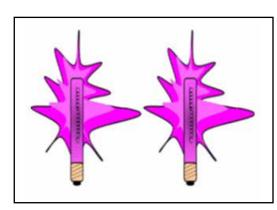
- TC TIC =TOC
- Stable measurements for >12months

On-line and grab-sample analysis in one analyzer

• Built-in, 4 bottle grab sample analyzer



Fully compliant conductivity meter



UV Monitoring with auto-switching
Main & Standby UV

IMPROVED COMPLIANCE

Fully ICH Q2 compliant

Not affected by interference from ppm levels of TIC

Complete oxidation

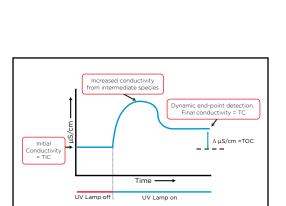
 Fully compliant with EP 2.2.44 requirement for complete TOC oxidation through dynamic end-point detection technology

Root cause analysis support

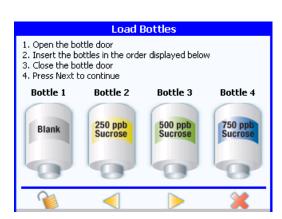
- Excursion capture feature allows a water sample to be captured to assist root cause analysis should a TOC excursion be detected
- Built-in grab-sample analyser for analysing samples from other points in the water loop

21CFR part 11

- Multi-level user access
- Windows credentials (Microsoft Active Directory)
- Secure .pdf file export via FTP over Ethernet
- No manual data entry calibration standards use RFID tags to transfer lot number, expiry date and certified value directly to the PAT700
- Built-in electronic automated Calibration and System Suitability SOPs
- No manual calculations automated Calibration and System Suitability Pass/Fail calculations



Complete TOC oxidation to EP2.2.44



Built-in, automated SOPs

Specifications

TOC

Operating Range 0.5 to 2,000 ppb as Carbon

Display Resolution 0.1 ppb

Accuracy ± 1 ppb or $\pm 5\%$, whichever is greater Repeatability ± 0.3 ppb or $\pm 1\%$, whichever is greater

Limit of Detection 0.5 ppb

Maximum Input Conductivity 0.2 µS/cm for all waters, 1.0 µS/cm for all neutral waters,

 $5.0 \,\mu\text{S/cm}$ for water with CO2 as the sole conductive species

Conductivity Conductivity Range 0.05 to 150 μ S/cm (@ 25°C)

Display Resolution 0.01 μS/cm

Conductivity Accuracy ±2% over full range (uncompensated)

Available Conductivity Reporting Modes Temperature compensated to 25°C, or uncompensated

Available Resisitivity Reporting Mode Temperature compensated to 25°C only

Resistivity Range 0.2 to 18 MΩ-cm (@ 25°C)

Display Resolution 0.01 over full range

Temperature Ambient Operating Range 10 to 40°C (50 to 104°F)

Measurement Accuracy ±0.4°C

Sample Water Range 1 to 95°C (34 to 203°F)
Display Resolution 0.1 over full range

Physical SpecsUV Lamps2, with UV Detect technology

Interface/Display Color touch screen

Maximum Altitude 4,000 m (13,125 ft)

User I/O Wiring
Three, ¾-inch conduit openings or quick disconnect fittings
Standards System
Onboard, Automated Standards Introduction System (OASIS)

Dimensions 59.7 w X 22.9 d X 25.4 h cm (23.5 X 9 X 10 inches)

Weight 13.6 kg (30 lbs)

Sample Inlet Flow Rate Range 60 mL/min to 300 mL/min
Sample Inlet Pressure Range 10 to 100 psi (69 to 690 kPa)

Communications Analog output 3 x 4-20mA outputs, user configurable TOC, Conductivity

(uncompensated) and Sample Temperature

Digital output 4 x digital outputs, user configurable (for alarms, etc.)

Digital input 2 x digital inputs (for remote control)

Compliance Installation Category I

Pollution Degree 2, IEC 61010-1

CE Compliance EN 61010-1 and EN 61326

Safety Rating ETL, conforming to UL 61010-1 and CSA 22.2 No. 61010-1

Enclosure Rating Conduit version: IP56
Quick connect version: IP46

Release tests, USP <643>, USP <645>, JP 16, EP 2.2.44

New Features CIP Selectable mode for Clean-In-Place analysis

Dual Stream option Toggle or programmable stream switching

Excursion sampling Minimum flow rate to fill excursion bottle = 160 mL/min Rouge detection Identifies oxidation cell contamination from rouging



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